

LMX-1600G Series

16-Port Industrial Gigabit Light Layer 3 Managed Ethernet Switch, with 16*10/100/1000Tx Ports



Features

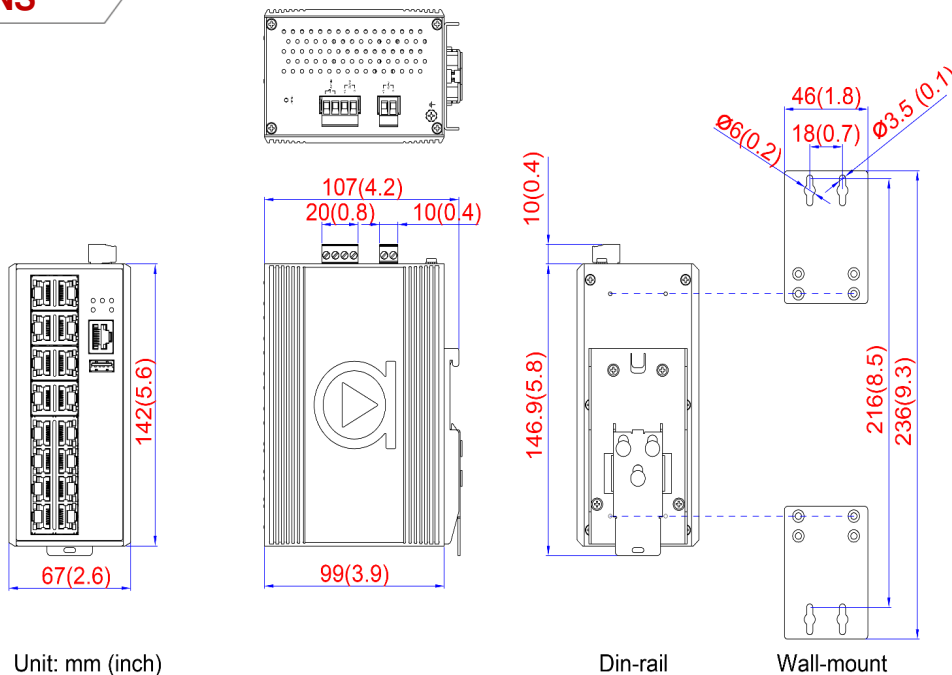
- ▶ Supports 16*10/100/1000Tx RJ45 Ports
- ▶ Network Redundancy: STP/RSTP/MSTP, and G.8032 ERPS (Recovery Time <50ms)
- ▶ Supports IPv4/IPv6, and DHCP Option 66/67/82
- ▶ Supports Modbus/TCP Protocol for Device Management and Monitoring
- ▶ IGMP v1/v2/v3 for Multicast Traffic Filtering
- ▶ System Warning Setting for Automatic Warning
- ▶ QoS (IEEE802.1p/1Q), CoS/ToS to Increase Determinism
- ▶ IEEE802.1Q VLAN for Easy Network Planning
- ▶ Enhanced Network Security with IEEE802.1X, SNMP v1/v2c/v3, HTTPS, and SSH/SSL
- ▶ Operating Temperature Range: STD: -10°C to 70°C, EOT: -40°C to 75°C
- ▶ 5-Year Warranty

INTRODUCTION

Antaira Technologies' LMX-1600G series is a 16-port industrial Gigabit managed Ethernet switch that is embedded with 16*10/100/1000Tx Ethernet ports. The LMX-1600G series is a fully manageable light layer 3 Ethernet switch that is pre-loaded with a user-friendly web management console design. It supports the ring network redundancy function using the market's open standard ITU-T G.8032 ERPS (Ethernet Ring Protection Switch) protocol that has a <50ms network recovery time. The advanced network filtering and security functions, such as, IGMP, VLAN, QoS, SNMP, port lock, RMON, Modbus TCP, and 802.1X/HTTPS/SSH/SSL increase determinism and improve network management for remote SCADA systems or control networks.

The LMX-1600G series is IP30 rated and DIN-rail mountable. There are also two wide operating temperature models for either a standard temperature range (STD: -10°C to 70°C) or an extended temperature range (EOT: -40°C to 75°C). It also provides high EFT and ESD protection for industrial networking applications, such as, power/utility, water wastewater, oil/gas/mining, factory automation, security surveillance within transportation, ITS and any other outdoor or harsh environment.

DIMENSIONS



SPECIFICATIONS

Technology		Protection	
L2 Switching	Port/MAC/Protocol/IP Subnet-based VLAN, GARP/GVRP, Loop Guard, Link Aggregation static/LACP, BPDU guard, Error disable recovery, IGMP snooping v2/v3, MLD snooping v1/v2, IGMP filtering, IPMC throttling / filtering leave proxy, DHCP snooping, G.8032 v1/v2	Overload Current Protection	Present
		Power Reverse Polarity	Present (the unit will not be on, if power reverse)
L3 Switching	DHCP option82, static routes	Network Cable	10Base-T: 2-pair UTP/STP Cat. 3, 4, 5 cable; EIA/TIA-568 100-ohm (100m) 100Base-TX: 2-pair UTP/STP Cat. 5 cable; EIA/TIA-568 100-ohm (100m) 1000BaseTX: 4-pair UTP/STP Cat.5/5E cable; EIA/TIA-568 100-ohm (100m)
QoS	802.1p Queueing, Input priority mapping, Storm control for Unicast/Multicast/Broadcast, Port/Queue/ACL policer, Port egress shaper, Queue egress shaper, DiffServ (DSCP), Tag remarking, Scheduler mode		
Power Saving	ActiPHY, PerfectReach, IEEE 802.3az EEE power management	Mechanical Characteristics	
Network Redundancy	STP/RSTP/MSTP, port trunk with LACP, ERPS v1/v2 (<50ms)	Housing	Metal, IP30 rated
Configuration	Http, Https, Telnet, SSH, CLI, TFTP, SNMP v3	Dimension	67 x 142 x 99 mm (W x H x D)
System / Diagnostics	Dual Image Protection, PING, PING6	Weight	Unit: 2.65 lbs Shipping: 3.09 lbs
Switch Properties		Mounting	DIN-Rail mounting; Wall mounting
Switch Architecture	Back-Plane (Switching Fabric): 32.0Gbps IPv4/IPv6, SNMP v1/v2c/v3, LLDP, LLDP-MED, HTTP, HTTPS, SSHv2 telnet, DHCP client, DHCPv6 client, DHCP server, Port Mirror, DNS client/proxy, IP based Access Filter, ICMPv6, syslog, Time Zone / Daylight Saving, NTP client, RMON, sFlow, Loop detection, Console Port, Power Lost Warning, Relay Trigger	Power Requirement	
Protocols		Input Voltage	12~48VDC Redundant Input
Processing Type	Store and Forward	Power Connection	1 removable 4-contact and 2-contact terminal block
Flow Control	IEEE 802.3x for full duplex mode, back pressure for half duplex mode	System Power Consumption	13.8 Watts
Transfer Rate	14,880pps for 10Base-T Ethernet 148,800pps for 100Base-T Fast Ethernet 1,488,000pps for Gigabit Ethernet	Environmental Limits	
Packet Buffer	4Mbits	Operating Temperature	STD: -10° to 70°C EOT: -40° to 75°C
Jumbo Frame	9.6Kbytes	Storage Temperature	-40°~85°C
MAC Table Size	8K	Ambient Relative Humidity	5 to 95%, (non-condensing)
VLAN Group	4095	Regulatory Approvals	
IGMP Group	1024	EMI	FCC Part 15 Subpart B Class A CE EN55032/EN61000-6-4 Class A
Port Interface		EMS	CE EN55035/EN61000-6-2 EN61000-4-2,3,4,5,6,8
Ethernet Port	16*10/100/1000BaseTx Auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection	Free Fall	IEC60068-2-32
RS232 Serial Console	1*RS232 in RJ45 connector with console cable, 115.2Kbps, 8, N, 1	Shock	IEC60068-2-27
Configuration Backup	1*USB 2.0	Vibration	IEC60068-2-6
		Green	RoHS Compliant
		Certifications	FCC, CE, UL 61010-1, 61010-2-201, NEMA TS2
		Substation	IEC 61850-3 Edition 2.0
		Warranty	5 Years

ORDERING INFO

LMX-1600G	16-Port Industrial Gigabit Light Layer 3 Managed Ethernet Switch, with 16*10/100/1000Tx Ports
LMX-1600G-T	16-Port Industrial Gigabit Light Layer 3 Managed Ethernet Switch, with 16*10/100/1000Tx Ports; EOT: -40°C to 75°C

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